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100	Unknown in Middleburg Village. (6.)
2	Black shale. (5.)
21	(Black shale ?) judging by the surface. (4.)
2	Black slate. (3.)
15	Unknown. (2.)
	Helderburg Limestone. Half a mile below Middleburg, at grist mill. (Makes falls in the Schoharie.) (1.)

Section of the Palæozoic Rocks in Blair County, by Mr. Franklin Platt and Mr. R. H. Sanders, of the Second Geol. Surv. of Penna., in 1877.

(Communicated to the American Philosophical Society, April 19, 1878.)

The following section of the Palæozoic rocks, exposed in Blair County, was made by compiling the sections taken from the following points :

From the summit of the Allegheny Mountains at Bennington along the Pennsylvania Railroad to Altoona for XII, XI, X, IX, and VIII. At Frankstown for VII. At Hollidaysburg for VI. At McKee's Gap for V. At Tyrone and Spruce Creek Gaps for IV, III. From Spruce Creek to Tyrone Forges for II. The measurements are based on the railroad lines and from the topographical survey of Blair County.

From the Mahoning Sandstone to coal A is taken from report H H.

XII to VIII was measured by plotting on the railroad map the various cuts and measuring the rocks in each cut, and then projecting them over onto a section line. The projection of the various cuts onto the section line was most likely accompanied by a few errors but they would not make any material difference in the thickness.

The entire thickness of VII could not be measured at Frankstown, where the best exposure could be seen. A good measurement of VI was obtained at the "Chimney Rocks" at Hollidaysburg.

The measurement of V taken along the railroad cut at McKee's Gap gives a good measurement except the lower part which is concealed, and which should have the horizon of the "Frankstown" ore in it.

The Medina Sandstone shows best on the Pennsylvania Railroad, east of Spruce Beech Tunnel. The remainder of IV shows best in Tyrone Gap, but the rocks are crushed and the measurement is not reliable.

III a complete section of these slates do not show anywhere in the county.

II the thickness of these limestones and dolomites is taken from a carefully measured section along the Little Juniata from Spruce Creek to Tyrone Forges.

R. H. Sanders.

345'	4"	XIII Lower Productive Coal Measures.
223'	1"	XII Pottsville Conglomerate.
283'		XI Mauch Chunk Red Shale.
1,274'	4"	X Pocono Sandstone.
2,560'		IX Catskill Sandstone and Shale.
6,519'	2"	VIII Chemung, Portage, Hamilton, Upper Helderburg
50'		VII Oriskany Sandstone.
900'		VI Lower Helderburg Limestones.
1,328'	3'	V Clinton Red Shale.
2,365'	10"	IV Medina and Oneida Sandstone.
900'		III Hudson-River and Utica Slates.
6,600'		II and I (?) Trenton, Calciferous and perhaps Potsdam

23,348' Palæozoic rocks exposed in Blair County.

Mahoning Sandstone.		52'	White and grayish-white coarse grained sandstone.
2'	8" Coal bed.	10'	Gray slate.
20'	Drab slates.	5'	Red slate.
5'	Olive shales.	10'	Gray sandstone.
10'	Massive slates.	10'	Red shale.
20'	Olive slates and shales.	Total XI.....283'	
5'	6" Coal bed E.	2'	Gray shale.
2'	Impure fire clay.	200'	Gray sandstone.
20'	Sandstone and black slate.	3'	Red shale.
3'	Limestone.	334'	Massive gray sandstone.
20'	Ferruginous slates and shales.	20'	Dark gray slates.
20'	Sandstone and sandy shales.	266'	Massive gray sandstone.
3'	Coal bed D ¹ .	15'	Olive-gray sandstone.
1'	Fire-clay.	20'	Red shale.
21'	Sandstone, drab.	60'	Gray sandstone.
20'	Black slate.	40'	Gray slate.
2'	10" Coal bed D.	30'	Gray sandstone.
11'	Drab slates holding ore balls.	5'	Greenish-gray slate.
0'	7" Sandstone.	2'	Gray sandstone.
13'	Blue slates.	10'	Gray slate.
15'	Sandstone, massive, drab.	15'	Massive gray sandstone.
12'	6" Slate.	5'	Brown shale.
6" Coal	} Bed C.	20'	Red shale and slate.
6" Slate		15'	Brown sandstone.
1'		5'	Gray slate.
6'	Fire-clay.	20'	Red shale and slate.
12'	Sandstone.	20'	Massive gray sandstone.
1'	3" Slate.	29'	Red shale.
0'	4" Coal.	11'	Gray sandstone.
7'	Sandstone.	10'	Gray slaty sandstone.
8'	10" Black slate, with calamites.	17'	Brown slaty sandstone.
3'	6" Coal bed B.	10'	Red shale.
3'	Fire-clay.	1'	Gray micaceous sandstone.
29'	Shales.	1'	Iron ore, greenish-gray.
2'	Black slate.	0'	1½" Gray micaceous sandstone.
1'	8" Coal bed A ¹ .	1'	9" Iron ore, greenish-gray.
23'	Slates.	26'	Massive gray sandstone.
4'	Sandstone, gray.	5'	Red slate.
4'	Coal bed A.	1'	6" Iron ore, greenish-gray.
9'	Fire-clay.	14'	Gray micaceous thin bedded SS.
Total.....345' 4"		1'	Ferruginous sandstone.
14'	SS., coarse grained iron stained.	38'	Gray sandstone.
0'	1" Coal.	7'	Gray slate.
9'	Fire-clay.	3'	Red slate.
4'	Slaty sandstone.	1'	Brown sandstone.
15'	Fine grained grayish white SS.	2'	Red slate.
81'	Massive white sandstone.	15'	Gray slate.
100'	Concealed.	16'	Gray sandstone.
Total, XII.....223' 1"		5'	Red shale.
110'	Red shale.	7'	Red slate.
40'	Gray slate.	45'	Gray sandstone.
5'	Red shale.	Total, X.....1,274' 4"	
12'	Gray slate.	9'	Red shale.
2'	Red slate.	3'	Gray shale.
4'	Fine grained sandstone.	15'	Red shale.
6'	Red slate.	12'	Brown sandstone.
4'	Greenish gray slate.	25'	Red shale.
6'	Red shale.	20'	Gray sandstone.
2'	Gray slate.		

25' Red shale.	1' Gray sandstone.
196' Concealed.	8' Dark gray slates.
Red sandstone.	10' Gray sandstone.
167' Concealed.	86' Dark gray slates and concealed.
30' Brown shale.	15' Dark gray slates.
50' Brown sandstone.	1' Gray sandstone.
35' Red shale with three small layers of olive shale.	50' Gray slates.
30' Brownish-gray sandstone.	2' Gray sandstone.
10' Gray slaty sandstone.	4' Gray slate.
30' Reddish-brown sandstone.	10' Gray sandstone.
3' Red shale.	0' 2'' gray slate.
20' + Yellowish-gray sandstone.	1' Gray sandstone.
264' Concealed and reddish sand- stone and slate.	70' Gray slate.
6' Gray shale.	300' Concealed.
50' Red shale and sandstone.	20' Gray slate.
10' Gray slaty sandstone.	260' Slaty sandstone.
265' Red shale and sandstone.	20' Gray shale.
20' Red sandstone,	30' Gray sandstone and slates, thin bedded.
10' Red shale.	505' Concealed.
15' Red sandstone.	50' Gray sandstone thin bedded with slate.
15' Red shale and sandstone.	460' Gray slate with thin layers of gray sandstone.
15' Red sandstone.	50' Gray slate.
80' Red shale.	50' Concealed.
305' Concealed.	35' Gray slate with a few layers of gray sandstone.
15' Gray shale.	50' Gray slate, cleavage planes iron stained.
14' Red SS. with some gray shale.	780' Concealed, mostly gray slates.
10' Red shale.	185' Olive and gray slates with 10' red slates.
10' Red and gray shale.	5' Red slates.
2' Gray shale.	418' Gray slate and sandstone.
4' Red sandstone.	75' Slaty sandstone and gray slate.
15' Red slate with some gray SS.	10' Gray sandstone.
20' Gray shale.	100' Gray slates, some of the slates have ripple marks.
70' Red shale.	600' Gray slaty sandstone, thin.
5' Gray sandstone.	1365' Gray and black slates, the black slates are the lowest thickness not known.
40' Red shale.	Total, VIII.....6519' 2''
15' Reddish-brown sandstone.	50' ± Sandstone, coarse grained, some conglomerate. The thickness cannot be measured at any place in the county.
60' Red shale with layers of gray sandstone.	Total, VII.....50'.
25' Gray sandstone with red shale ; small layers of gray shale.	900' Limestone, not all exposed, mostly a dark blue massive limestone.
40' Gray sandstone and slate.	Total, VI.....900'.
480' Concealed.	120' Gray slaty limestone.
Total, IX.....2560'	30' Concealed.
20' Red slate with gray sandstone, mostly sandstone.	60' Gray slate with some limestone.
40 Gray slates.	5' Dark gray slate.
20' Gray sandstone.	14' Slaty limestone.
3' Gray slate.	1' Limestone.
20' Gray sandstone.	
40' Gray slate.	
90' Gray sandstone and slate, with a slight reddish tinge.	
40' Gray sandstone and slate.	
410' Concealed.	
192' Gray slate.	
8' Gray sandstone.	
10' Light gray slate.	

3' Gray slate.	20' Gray sandstone.
26' Red shale.	1' Red shale.
1' Gray slate.	10' Gray sandstone.
0' 10'' Limestone.	0' 6'' Red shale.
5' Gray slate.	10' Red sandstone.
0' 6'' Green shale.	15' Grayish-red sandstone.
1' Red shale.	1' Red slate.
1' Gray shale.	1' 6'' Green slate.
14' Red shale.	15' Gray sandstone.
5' Gray slate.	1' Gray slate.
1' Impure limestone.	20' Brown sandstone.
5' Dark brown slate.	1' Gray slate.
2' Olive gray slate.	8' Brown sandstone.
7' Red slate.	0' 6'' Red shale.
45' Gray slate with some small layers of limestone.	75' Reddish-brown sandstone.
1' 9'' Fossiliferous dark blue lime.	1' Red slate.
1' 6'' Gray slate.	200' Red and gray sandstone.
0' 6'' Limestone.	9' Red sandstone.
4' Gray slate.	4' Red shale.
0' 2'' Limestone.	2' Red sandstone.
30' Olive slate.	3' Red slate.
3' Limestone.	1' Green slate.
3' Gray slate.	4' Red slate.
2' Limestone.	2' Green slate.
6' Gray slate.	6' Red sandstone.
2' Red shale.	15' Red sandstone (some gray).
3' Olive shale.	10' Red sandstone.
6' Red shale.	2' Gray slate.
2' Green shale.	18' Red sandstone.
3' Red shale.	0' 5'' gray slate.
2' Olive shale.	12' Grayish-brown sandstone.
6' Red shale.	0' 3'' Red shale.
5' Gray shale.	20' Brown sandstone.
30' Gray slate and concealed.	0' 2'' Green shale.
50' Concealed. Fossil ore.	4' Brown sandstone.
20' Gray slate.	1' Red shale.
30' Concealed.	150' Brown and gray sandstone and concealed.
30' Brown slate.	409' Concealed and gray sandstone.
640' Concealed. Frankstown fossil ore in this interval.	320' Gray sandstone.
Total V, 1328' 3''.	440' Gray sandstone and slaty SS.
100 ± White sandstone.	Total, IV. 2365' 10''
255' Red sandstone with layers of red slate from 6'' to 5' thick.	900' Slates, gray and black, they do not show in any place in the county.
84' Massive red sandstone.	Total, III. 900'
1' 8'' Green slaty sandstone.	5400' Limestone, dark blue, blue, and gray.
87' Red sandstone with a few layers of red shale.	40' ± White sandstone, some of it iron-stained.
0' 6'' Green slate.	1160' Limestone, towards the bot- tom comes in slates and SS.
10' Red sandstone.	Total, II & I (?) 6600'
5' Red shale.	
5' Green slate.	
5' Red sandstone.	